

GenCore version 5.1.6
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OM protein - protein search, using swi model

Run on: June 25, 2003, 14:20:41 ; Search time 31.2 Seconds
(without alignments)
444.169 Million cell updates/sec

Title: US-09-622-613b-11
Perfect score: 577
Sequence: 1 SWI2/POKRLH/TFTRDVCN.....TFCVTCENQAPVHFVGVGHC 104

Scoring table: BIOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 908470.seqs, 133250620 residues

Total number of hits satisfying chosen parameters: 908470

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :
1: /SID2/gcgdata/geneseq/geneseq-emb1/AA1980.DAT:*
2: /SID2/gcgdata/geneseq/geneseq-emb1/AA1981.DAT:*
3: /SID2/gcgdata/geneseq/geneseq-emb1/AA1982.DAT:*
4: /SID2/gcgdata/geneseq/geneseq-emb1/AA1983.DAT:*
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8: /SID2/gcgdata/geneseq/geneseq-emb1/AA1987.DAT:*
9: /SID2/gcgdata/geneseq/geneseq-emb1/AA1988.DAT:*
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11: /SID2/gcgdata/geneseq/geneseq-emb1/AA1990.DAT:*
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20: /SID2/gcgdata/geneseq/geneseq-emb1/AA1999.DAT:*
21: /SID2/gcgdata/geneseq/geneseq-emb1/AA2000.DAT:*
22: /SID2/gcgdata/geneseq/geneseq-emb1/AA2001.DAT:*
23: /SID2/gcgdata/geneseq/geneseq-emb1/AA2002.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|-------------|
| 1 | 577 | 100.0 | 104 | 20 | AAV28870 |
| 2 | 577 | 100.0 | 105 | 20 | AAV28871 |
| 3 | 573 | 99.3 | 104 | 20 | AAV28865 |
| 4 | 573 | 99.3 | 105 | 20 | AAV28867 |
| 5 | 573 | 99.3 | 127 | 20 | AAV28879 |
| 6 | 570 | 98.8 | 104 | 20 | AAV28866 |
| 7 | 570 | 98.8 | 105 | 20 | AAV28869 |
| 8 | 556 | 96.4 | 104 | 18 | AAW6544 |
| 9 | 555 | 96.2 | 112 | 18 | AAW5116 |
| 10 | 555 | 96.2 | 251 | 18 | AAW5134 |

| | | | | | | |
|----|-------|------|-----|----|----------|---------------------|
| 11 | 555 | 96.2 | 254 | 18 | AAW5135 | R. pipliens recombi |
| 12 | 555 | 96.2 | 355 | 18 | AAW5129 | R. pipliens recombi |
| 13 | 555 | 96.2 | 355 | 18 | AAW5133 | R. pipliens recombi |
| 14 | 555 | 96.2 | 366 | 18 | AAW5132 | R. pipliens recombi |
| 15 | 551 | 95.5 | 104 | 12 | AAV1234 | Protein with activ |
| 16 | 551 | 95.5 | 104 | 15 | AAV47303 | ONCONASR (pharmace |
| 17 | 551 | 95.5 | 104 | 17 | AAW0736 | Protein derived fr |
| 18 | 551 | 95.5 | 104 | 18 | AAW30301 | Recombinant onc pr |
| 19 | 551 | 95.5 | 104 | 18 | AAW6543 | Antitumour protein |
| 20 | 551 | 95.5 | 104 | 18 | AAW14065 | Onconase (RTM) pro |
| 21 | 551 | 95.5 | 104 | 20 | AAV33322 | Frog onconase prot |
| 22 | 551 | 95.5 | 104 | 20 | AAW8233 | Rana pipliens RNase |
| 23 | 551 | 95.5 | 104 | 22 | AAW31666 | Amino acid sequenc |
| 24 | 551 | 95.5 | 105 | 18 | AAW5123 | R. pipliens recombi |
| 25 | 551 | 95.5 | 106 | 18 | AAW5122 | R. pipliens recombi |
| 26 | 551 | 95.5 | 107 | 18 | AAW5117 | R. pipliens recombi |
| 27 | 551 | 95.5 | 355 | 18 | AAW5135 | R. pipliens recombi |
| 28 | 551 | 95.5 | 358 | 18 | AAW5130 | R. pipliens recombi |
| 29 | 551 | 95.5 | 379 | 18 | AAW5126 | R. pipliens recombi |
| 30 | 550 | 95.3 | 105 | 18 | AAW5116 | R. pipliens recombi |
| 31 | 548 | 95.0 | 104 | 18 | AAW30302 | Recombinant onc pr |
| 32 | 548 | 95.0 | 105 | 20 | AAV39400 | Recombinant frog O |
| 33 | 546 | 94.6 | 104 | 18 | AAW18224 | Antitumour generic |
| 34 | 546 | 94.6 | 105 | 18 | AAW5115 | R. pipliens recombi |
| 35 | 546 | 94.6 | 358 | 18 | AAW5127 | R. pipliens recombi |
| 36 | 546 | 94.6 | 365 | 18 | AAW5131 | R. pipliens recombi |
| 37 | 543 | 94.1 | 104 | 22 | AAW31667 | Amino acid sequenc |
| 38 | 531 | 92.0 | 107 | 18 | AAW5120 | R. pipliens recombi |
| 39 | 494 | 85.6 | 360 | 18 | AAW5128 | R. pipliens recombi |
| 40 | 484.5 | 84.0 | 111 | 18 | AAW5121 | R. pipliens recombi |
| 41 | 445 | 77.1 | 83 | 20 | AAW5119 | R. pipliens clone R |
| 42 | 445 | 77.1 | 83 | 20 | AAW8234 | Rana pipliens RNase |
| 43 | 287 | 49.7 | 111 | 20 | AAV33321 | Frog lectin protei |
| 44 | 280.5 | 48.6 | 110 | 20 | AAV28877 | Recombinant RacOR1 |
| 45 | 280.5 | 48.6 | 111 | 20 | AAV28878 | Recombinant Met(-1 |

ALIGNMENTS

| | | |
|----------|---|--|
| RESULT 1 | AAV28870 | |
| ID | AAV28870 standard; Protein: 104 AA. | |
| AC | AAV28870; | |
| XX | | |
| DT | 25-JAN-2000 (first entry) | |
| XX | | |
| DE | Recombinant Rap1R1 Gln1Ser amino acid sequence. | |
| XX | | |
| KW | Recombinant Rana pipliens ribonuclease; Rap1R1 Gln1Ser; covalently bound; | |
| KW | IL2 antibody; ligand binding moiety; CD22; cancerous B cells; frog; | |
| KW | Kaposi's sarcoma; human chorionic gonadotropin; hCG; signal peptide; | |
| KW | recombinant ribonuclease; cytotoxic fusion protein; cancer; RNase; | |
| KW | autoimmune disease. | |
| XX | | |
| OS | Rana pipliens. | |
| XX | | |
| OS | Synthetic. | |
| XX | | |
| FT | Key | Location/Qualifiers |
| FT | Misc-difference 1 | /note= "Wild type Gln replaced with Ser" |
| FT | | |
| XX | | |
| PN | W09950398-A2. | |
| XX | | |
| PD | 07-OCT-1999. | |
| XX | | |
| PF | 26-MAR-1999; 99WO-US06641. | |
| XX | | |
| PR | 27-MAR-1998; 98US-0079751. | |
| XX | | |
| PA | (USSH) US DEPT HEALTH & HUMAN SERVICES. | |
| XX | | |

PI Newton DL, Rybak SM;
XX WPI: 1999-610847/52.
DR N-PSDB: AA208128.
XX
PT New recombinant ribonucleases, used for killing target cells, e.g. for
XX treating cancers, viral infections or autoimmune diseases
XX
PS Claim 34; Page 60; 71pp; English.
XX
CC The present sequence is a recombinant Rana pipiens ribonuclease (RaplR1)
CC protein with Gln1ser. Carboxy terminal end of recombinant RaplR1 has a
CC covalently bound ligand binding moiety, which can be a LL2 antibody
CC directed against CD22 on cancerous B cells or human chorionic
CC gonadotropin (hCG) effective against Kaposi's sarcoma cells. Recombinant
CC ribonucleases can be expressed in bacteria without an N-terminal
CC methionine due to the presence of a signal peptide that is cleaved by
CC bacteria. The soluble expression of ribonuclease allows the proteins to
CC be fused in-frame with ligand binding moieties to form cytotoxic fusion
CC proteins. They can be used for treatment of cancer and autoimmune
CC diseases.
XX
SQ Sequence 104 AA:
XX
Query Match 100.0%; Score 577; DB 20; Length 104;
Best Local Similarity 100.0%; Pred. No. 2,9e-62;
Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 1 SDMLTFQKKHLNTRDVCNNIMSTNLEFCKDKNTFTYSRPPVKAICGIIASKNVLT 60
DB 1 SDMLTFQKKHLNTRDVCNNIMSTNLEFCKDKNTFTYSRPPVKAICGIIASKNVLT 60
XX
QY 61 SEFYISDCNVTSPCKYKRLKSTNTEFCVTCENQAPVHFVGHC 104
DB 61 SEFYISDCNVTSPCKYKRLKSTNTEFCVTCENQAPVHFVGHC 104
XX
RESULT 2
ID AAY28871 standard; Protein: 105 AA.
XX
AC AAY28871;
XX
DT 25-JAN-2000 (first entry)
XX
DE Recombinant Met(-1) RaplR1 Gln1ser amino acid sequence.
XX
KW Recombinant Met(-1) Rana pipiens ribonuclease Gln1ser; RaplR1; CD22;
KW covalently bound; LL2 antibody; ligand binding moiety; cancerous B cell;
KW Kaposi's sarcoma; human chorionic gonadotropin; hCG; signal peptide;
KW recombinant ribonuclease; cytotoxic fusion protein; cancer; frog;
KW autoimmune disease; RNase.
XX
OS Rana pipiens.
OS Synthetic.
OS
XX
FH Key Location/Qualifiers
FT Misc-difference 1
FT /note= "Met not found in wild type RaplR1"
FT Misc-difference 2 /note= "Wild type Gln replaced with Ser"
XX
XX WO9950398-A2.
XX
XX 07-OCT-1999.
XX
XX 26-MAR-1999; 99WO-US06641.
XX
XX 27-MAR-1998; 98US-0079751.
XX (USSH) US DEPT HEALTH & HUMAN SERVICES.
XX
XX Newton DL, Rybak SM;

XX
DR WPI: 1999-610847/52.
DR N-PSDB: AA208129.
XX
PT New recombinant ribonucleases, used for killing target cells, e.g. for
XX treating cancers, viral infections or autoimmune diseases
XX
PS Claim 34; Page 61; 71pp; English.
XX
CC The present sequence is a recombinant Rana pipiens ribonuclease (RaplR1)
CC protein with Met at position 1 and Gln2Ser. Carboxy terminal end of
CC recombinant RaplR1 has a covalently bound ligand binding moiety, which
CC can be a LL2 antibody directed against CD22 on cancerous B cells or human
CC chorionic gonadotropin (hCG) effective against Kaposi's sarcoma cells.
CC Recombinant ribonucleases can be expressed in bacteria without an N-
CC terminal methionine due to the presence of a signal peptide that is
CC cleaved by bacteria. The soluble expression of ribonuclease allows the
CC proteins to be fused in-frame with ligand binding moieties to form
CC cytotoxic fusion proteins. They can be used for treatment of cancer and
CC autoimmune diseases.
XX
SQ Sequence 105 AA:
XX
Query Match 100.0%; Score 577; DB 20; Length 105;
Best Local Similarity 100.0%; Pred. No. 3e-62;
Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 1 SDMLTFQKKHLNTRDVCNNIMSTNLEFCKDKNTFTYSRPPVKAICGIIASKNVLT 60
DB 2 SDMLTFQKKHLNTRDVCNNIMSTNLEFCKDKNTFTYSRPPVKAICGIIASKNVLT 61
XX
QY 61 SEFYISDCNVTSPCKYKRLKSTNTEFCVTCENQAPVHFVGHC 104
DB 62 SEFYISDCNVTSPCKYKRLKSTNTEFCVTCENQAPVHFVGHC 105
XX
RESULT 3
ID AAY28865 standard; Protein: 104 AA.
XX
AC AAY28865;
XX
DT 25-JAN-2000 (first entry)
XX
DE Rana pipiens liver ribonuclease (RaplR1).
XX
KW Rana pipiens liver ribonuclease; RaplR1; covalently bound; LL2 antibody;
KW ligand-binding moiety; CD22; cancerous B cell; Kaposi's Sarcoma; frog;
KW human chorionic gonadotropin; hCG; recombinant ribonuclease; RNase;
KW signal peptide; cytotoxic fusion protein; cancer; autoimmune disease.
XX
OS Rana pipiens.
OS
XX
XX WO9950398-A2.
XX
XX 07-OCT-1999.
XX
XX 26-MAR-1999; 99WO-US06641.
XX
XX 27-MAR-1998; 98US-0079751.
XX (USSH) US DEPT HEALTH & HUMAN SERVICES.
XX
XX Newton DL, Rybak SM;
XX
XX WPI: 1999-610847/52.
XX N-PSDB: AA208124.
XX
PT New recombinant ribonucleases, used for killing target cells, e.g. for
XX treating cancers, viral infections or autoimmune diseases
XX
PS Claim 1; Page 55; 71pp; English.

CC antibody directed against CD22 on cancerous B cells or human chorionic

CC covalently bound ligand binding moiety, which can be a LL2 antibody

CC directed against CD22 on cancerous B cells or human chorionic
CC gonadotropin (hCG) effective against Kaposi's Sarcoma cells. Recombinant
CC ribonucleases can be expressed in bacteria without an N-terminal
CC methionine due to the presence of a signal peptide that is cleaved by
CC bacteria. The soluble expression of ribonuclease allows the proteins to
CC be fused in-frame with ligand binding moieties to form cytotoxic fusion
CC proteins. They can be used for treatment of cancer and autoimmune
CC diseases.

XX Sequence 127 AA;

Query Match 99.3%; Score 573; DB 20; Length 127;
Best Local Similarity 100.0%; Pred. No. 1,2e-61;
Matches 103; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 DWLTFQKKHLTNTRDVCNNIMSTNLFHCKDKNTFTYSRPEPKAICKGIASKNVLTTS 61
DB 25 DWLTFQKKHLTNTRDVCNNIMSTNLFHCKDKNTFTYSRPEPKAICKGIASKNVLTTS 84
QY 62 EFTLSDCNVTSRCKYKLLKSTNFTFCVTCENQAPVHFVGVC 104
DB 85 EFTLSDCNVTSRCKYKLLKSTNFTFCVTCENQAPVHFVGVC 127

RESULT 6
AAV28866
ID AAV28866 standard; Protein: 104 AA.

XX AAV28866;

DT 25-JAN-2000 (first entry)

DE Recombinant RapL1 Met23Leu amino acid sequence.

XX Recombinant Rana pipiens ribonuclease; RapL1 Met23Leu; covalently bound;
KW LL2 antibody; ligand binding moiety; CD22; cancerous B cell; RNase;
KW Kaposi's sarcoma; human chorionic gonadotropin; hCG; signal peptide;
KW recombinant ribonuclease; cytotoxic fusion protein; cancer; frog;
KW autoimmune disease.

XX Rana pipiens.
OS Synthetic.

XX Key Location/Qualifiers
FH Misc-difference 23 /note="Wild type Met replaced with Leu"

PN W09950398-A2.

PD 07-OCT-1999.

PF 26-MAR-1999; 99WO-US06641.

PR 27-MAR-1998; 98US-0079751.

XX (USSH) US DEPT HEALTH & HUMAN SERVICES.

PA Newton DL, Rybak SM.

PI MPI: 1999-610847/52.

DR N-PSDB; AA208125.

PT New recombinant ribonucleases, used for killing target cells, e.g. for
PT treating cancers, viral infections or autoimmune diseases

PS Claim 34; Page 56; 71pp: English.

XX The present sequence is a recombinant Rana pipiens ribonuclease (RapL1)
CC protein with Met23Leu. Carboxy terminal end of recombinant RapL1 has a
CC covalently bound ligand binding moiety, which can be a LL2 antibody
CC directed against CD22 on cancerous B cells or human chorionic
CC gonadotropin (hCG) effective against Kaposi's sarcoma cells. Recombinant
CC ribonucleases can be expressed in bacteria without an N-terminal

CC methionine due to the presence of a signal peptide that is cleaved by
CC bacteria. The soluble expression of ribonuclease allows the proteins to
CC be fused in-frame with ligand binding moieties to form cytotoxic fusion
CC proteins. They can be used for treatment of cancer and autoimmune
CC diseases.

XX Sequence 104 AA;

Query Match 98.8%; Score 570; DB 20; Length 104;
Best Local Similarity 99.0%; Pred. No. 2,1e-61;
Matches 102; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2 DWLTFQKKHLTNTRDVCNNIMSTNLFHCKDKNTFTYSRPEPKAICKGIASKNVLTTS 61
DB 2 DWLTFQKKHLTNTRDVCNNIMSTNLFHCKDKNTFTYSRPEPKAICKGIASKNVLTTS 61
QY 62 EFTLSDCNVTSRCKYKLLKSTNFTFCVTCENQAPVHFVGVC 104
DB 62 EFTLSDCNVTSRCKYKLLKSTNFTFCVTCENQAPVHFVGVC 104

RESULT 7
AAV28869
ID AAV28869 standard; Protein: 105 AA.

XX AAV28869;

DT 25-JAN-2000 (first entry)

DE Recombinant Met(-1) RapL1 Met23Leu-(His)6 protein.

XX Recombinant Met(-1) Rana pipiens ribonuclease Met23Leu-(His)6; RapL1;
KW CD22; covalently bound; LL2 antibody; ligand binding moiety; RNase;
KW cancerous B cell; Kaposi's sarcoma; human chorionic gonadotropin; hCG;
KW signal peptide; recombinant ribonuclease; cytotoxic fusion protein;
KW cancer; frog; autoimmune disease.

XX Rana pipiens.
OS Synthetic.

XX Key Location/Qualifiers

XX Misc-difference 1 /note=" (His)6 histidine tag attached to N-terminal Met"
FH Misc-difference 1 /note="Met not found in wild type RapL1"

PN W09950398-A2. /note="Wild type Met replaced with Leu"

PD 07-OCT-1999.

PF 26-MAR-1999; 99WO-US06641.

PR 27-MAR-1998; 98US-0079751.

XX (USSH) US DEPT HEALTH & HUMAN SERVICES.

PA Newton DL, Rybak SM.

PI MPI: 1999-610847/52.

DR N-PSDB; AA208127.

PT New recombinant ribonucleases, used for killing target cells, e.g. for
PT treating cancers, viral infections or autoimmune diseases

PS Claim 4; Page 59; 71pp: English.

XX The present sequence is a recombinant Rana pipiens ribonuclease protein
CC (RapL1) with Met at position 1 attached to (His)6 tag and Met24Leu.
CC Carboxy terminal end of recombinant RapL1 has a covalently bound ligand
CC binding moiety, which can be a LL2 antibody directed against CD22 on
CC cancerous B cells or human chorionic gonadotropin (hCG) effective

CC against Kaposi's sarcoma cells. Recombinant ribonucleases can be
 CC expressed in bacteria without an N-terminal methionine due to the
 CC presence of a signal peptide that is cleaved by bacteria. The soluble
 CC expression of ribonuclease allows the proteins to be fused in-frame with
 CC ligand binding molecules to form cytotoxic fusion proteins. They can be
 CC used for treatment of cancer and autoimmune diseases.

XX Sequence 105 AA:

Query Match 98.8%; Score 570; DB 20; Length 105;
 Best Local Similarity 99.0%; Pred. No. 2, 1e-61;
 Matches 102; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 2 DMLTFQKKHLNTRDVCNNIMSTNLFHCKDKNFTYSRPEPVKAICKGIIASKNVLTTS 61
 DB 3 DMLTFQKKHLNTRDVCNNIMSTNLFHCKDKNFTYSRPEPVKAICKGIIASKNVLTTS 62
 OY 62 EFYISDCNVTSRPCKYKILKSKSTNFTCVTCENQAPVHFVGVC 104
 DB 63 EFYISDCNVTSRPCKYKILKSKSTNFTCVTCENQAPVHFVGVC 105

RESULT 8

AAW06544 ID AAW06544 standard; Protein; 104 AA.

XX AAW06544;

XX 22-AUG-1997 (first entry)

XX Antitumour protein from Rana pipiens oocytes.

XX Tumour; chemotherapy; radiotherapy; frog.

XX Rana pipiens.

XX WO9639428-A1.

XX 12-DEC-1996.

XX 03-JUN-1996; 96WO-US08304.

XX 06-JUN-1995; 95US-0467955.

XX (ALFA-) ALFACELL CORP.

XX Ardelit MJ;

XX WPI; 1997-043063/C4.

XX Antitumour proteins from Rana pipiens oocytes(s) - have fewer
 CC disadvantages than chemotherapy, surgery and radiotherapy

XX Claim 8; Page 28; 45pp; English.

XX The present sequence is a specifically claimed example of an
 CC antitumour protein from the generic protein in AAW08224, with the
 CC molecular weight 12000. This is one of two preferred proteins (the
 CC other in AAW05543) that have been isolated from Rana pipiens oocytes.
 CC Both proteins have a blocked amino terminal group and are essentially
 CC free of carbohydrates. The proteins are used to treat tumours. Use of
 CC the peptides has fewer disadvantages than chemotherapy, radiotherapy
 CC and surgery in the treatment of tumours.

XX Sequence 104 AA:

Query Match 96.4%; Score 556; DB 18; Length 104;
 Best Local Similarity 97.1%; Pred. No. 1e-59;
 Matches 100; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

OY 2 DMLTFQKKHLNTRDVCNNIMSTNLFHCKDKNFTYSRPEPVKAICKGIIASKNVLTTS 61
 DB 2 DMLTFQKKHLNTRDVCNNIMSTNLFHCKDKNFTYSRPEPVKAICKGIIASKNVLTTS 61

OY 62 EFYISDCNVTSRPCKYKILKSKSTNFTCVTCENQAPVHFVGVC 104
 DB 62 EFYISDCNVTSRPCKYKILKSKSTNFTCVTCENQAPVHFVGVC 104

RESULT 9

AAW35118 ID AAW35118 standard; Protein; 112 AA.

XX AAW35118;

XX 20-APR-1998 (first entry)

XX R. pipiens recombinant RNase protein NLSmetseronc.

XX RNase A; ribonuclease; cytotoxic; onconase; none; immunofusion;
 CC tumour cell growth; frog.

XX Rana pipiens.

XX WO9731116-A2.

XX 28-AUG-1997.

XX 19-FEB-1997; 97WO-US02588.

XX 21-FEB-1996; 96US-0011800.

XX (USSH) US DEPT HEALTH & HUMAN SERVICES.

XX Bogue L, Newton DL, Rybak SM, Wlodawer A;

XX WPI; 1997-435168/40.

XX N-PSDB; AAT94955.

XX Ribonuclease molecules based on native Onconase - used for killing
 CC cells, particularly tumour cells

XX Claim 18; Page 63; 90pp; English.

XX AAW35115 to AAW35123 encode recombinant proteins (rOnc) which are
 CC modifications of the RNase Onconase (rOnc). Such novel
 CC ribonuclease molecules are highly cytotoxic and can be used alone or to
 CC form chemical conjugates or to target recombinant immunofusions. They are
 CC used particularly for decreasing tumour cell growth. They can also be
 CC used for cell separation in vitro by selectively killing unwanted types
 CC of cells, e.g. in bone marrow prior to transplantation into a patient
 CC undergoing marrow ablation by radiation, or for killing leukemia cells.
 CC or T-cells that would cause graft versus host disease. The toxins can
 CC also be used to selectively kill unwanted cells in culture. The new
 CC ribonucleases have increased cytotoxic activity compared to rOnc and also
 CC lower immunogenicity in humans.

XX Sequence 112 AA:

Query Match 96.2%; Score 555; DB 18; Length 112;
 Best Local Similarity 96.2%; Pred. No. 1.5e-59;
 Matches 100; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

OY 1 SOWLTFQKKHLNTRDVCNNIMSTNLFHCKDKNFTYSRPEPVKAICKGIIASKNVLTTS 60
 DB 9 SOWLTFQKKHLNTRDVCNNIMSTNLFHCKDKNFTYSRPEPVKAICKGIIASKNVLTTS 68

OY 61 SEFYISDCNVTSRPCKYKILKSKSTNFTCVTCENQAPVHFVGVC 104

DB 69 SEFYISDCNVTSRPCKYKILKSKSTNFTCVTCENQAPVHFVGVC 112

RESULT 10

AAW35134 ID AAW35134 standard; Protein; 251 AA.

XX

PR 21-FEB-1996; 960S-0011800.
XX (USSH) US DEPT HEALTH & HUMAN SERVICES.
XX
PI Bogue L, Newton DL, Rybak SM, Wlodawer A;
XX
DR WPI; 1997-435168/40.
XX N-PSDB; AAT94967.
XX
PT Ribonuclease molecules based on native Onconase - used for killing
PT cells, particularly tumour cells.
XX
PS Disclosure; Page 74; 90pp; English.
XX
CC Sequences AAW35125 to AAW35135 represent recombinant fusion proteins
CC (rOnc) which are modifications of the RNase Onconase (RM) (nOnc). Such
CC novel ribonuclease molecules are highly cytotoxic and can be used alone
CC or to form chemical conjugates or to target recombinant immunofusions.
CC They are used particularly for decreasing tumour cell growth. They can
CC also be used for cell separation in vitro by selectively killing unwanted
CC types of cells, e.g. in bone marrow prior to transplantation into a
CC patient undergoing marrow ablation by radiation, or for killing leukaemia
CC cells or T-cells that would cause graft versus host disease. The toxins
CC can also be used to selectively kill unwanted cells in culture. The new
CC ribonucleases have increased cytotoxic activity compared to nOnc and
CC also lower immunogenicity in humans.
XX
SQ Sequence 355 AA;

Query Match 96.2%; Score 555; DB 18; Length 355;
Best Local Similarity 96.2%; Pred. No. 6.7e-59;
Matches 100; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 SDMLTFQKKHLTNTRDVDCNNIMSTNLFHCKDKNTFIYSRPEPKAICGIIISKVLT 60
DB 252 SDMLTFQKKHLTNTRDVDCNNIMSTNLFHCKDKNTFIYSRPEPKAICGIIISKVLT 311
QY 61 SEFYLSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVC 104
DB 312 SEFYLSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVC 355

RESULT 13
AAW35133
ID AAW35133 standard; Protein: 355 AA.
XX
AC AAW35133;
XX
DT 20-APR-1998 (first entry)
XX
DE R. pipiens recombinant RNase rOnc fusion protein 9.
XX
KM RNase A; ribonuclease; cytotoxic; onconase; nOnc; immunofusion;
KW tumour cell growth; frog.
XX
OS Rana pipiens.
OS Synthetic.
XX
PN WO9731116-A2.
XX
PD 28-AUG-1997.
XX
PF 19-FEB-1997; 97WO-US02588.
XX
PR 21-FEB-1996; 96US-0011800.
XX
PA (USSH) US DEPT HEALTH & HUMAN SERVICES.
XX
PI Bogue L, Newton DL, Rybak SM, Wlodawer A;
XX
DR WPI; 1997-435168/40.
XX
N-PSDB; AAT94971.

PT Ribonuclease molecules based on native Onconase - used for killing
PT cells, particularly tumour cells
XX
PS Disclosure; Page 75; 90pp; English.
XX
CC Sequences AAW35125 to AAW35135 represent recombinant fusion proteins
CC (rOnc) which are modifications of the RNase Onconase (RM) (nOnc). Such
CC novel ribonuclease molecules are highly cytotoxic and can be used alone
CC or to form chemical conjugates or to target recombinant immunofusions.
CC They are used particularly for decreasing tumour cell growth. They can
CC also be used for cell separation in vitro by selectively killing unwanted
CC types of cells, e.g. in bone marrow prior to transplantation into a
CC patient undergoing marrow ablation by radiation, or for killing leukaemia
CC cells or T-cells that would cause graft versus host disease. The toxins
CC can also be used to selectively kill unwanted cells in culture. The new
CC ribonucleases have increased cytotoxic activity compared to nOnc and
CC also lower immunogenicity in humans.
XX
SQ Sequence 355 AA;

Query Match 96.2%; Score 555; DB 18; Length 355;
Best Local Similarity 96.2%; Pred. No. 6.7e-59;
Matches 100; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 SDMLTFQKKHLTNTRDVDCNNIMSTNLFHCKDKNTFIYSRPEPKAICGIIISKVLT 60
DB 2 SDMLTFQKKHLTNTRDVDCNNIMSTNLFHCKDKNTFIYSRPEPKAICGIIISKVLT 61
QY 61 SEFYLSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVC 104
DB 62 SEFYLSDCNVTSRPCKYKLLKSTNTFCVTCENQAPVHFVGVC 105

RESULT 14
AAW35132
ID AAW35132 standard; Protein: 366 AA.
XX
AC AAW35132;
XX
DT 20-APR-1998 (first entry)
XX
DE R. pipiens recombinant RNase rOnc fusion protein 8.
XX
KM RNase A; ribonuclease; cytotoxic; onconase; nOnc; immunofusion;
KW tumour cell growth; frog.
XX
OS Rana pipiens.
OS Synthetic.
XX
PN WO9731116-A2.
XX
PD 28-AUG-1997.
XX
PF 19-FEB-1997; 97WO-US02588.
XX
PR 21-FEB-1996; 96US-0011800.
XX
PA (USSH) US DEPT HEALTH & HUMAN SERVICES.
XX
PI Bogue L, Newton DL, Rybak SM, Wlodawer A;
XX
DR WPI; 1997-435168/40.
XX
N-PSDB; AAT94970.
XX
PT Ribonuclease molecules based on native Onconase - used for killing
PT cells, particularly tumour cells
XX
PS Disclosure; Page 74; 90pp; English.
XX
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